Optimised mould lifecycles with VERTECH' SILXMold

As glassmakers face constant pressure to improve efficiency, sustainability and cost control, Vertech' continues to support this challenge through digital supervision tools used worldwide – just as it has done since 1995. Today SILXMold extends that expertise further – delivering advanced mould traceability, lifecycle analytics and operational visibility that help manufacturers maximise both mould performance and production reliability.

In the glass manufacturing sector, efficiency, sustainability, and cost-effectiveness remain core operational priorities. Since its inception in 1995, Vertech' has consistently supported glassmakers worldwide in meeting these demands. Its SIL supervision system, now deployed in more than 35 countries, continues to drive the digitalisation of production processes. Within this ecosystem, SILXMold stands out as

a dedicated module engineered to optimise mould management and enhance productivity across glass production lines.

THE ROLE OF MOULDS IN GLASS PRODUCTION

Moulds are fundamental to glass quality, influencing wall thickness, volume accuracy and defect prevention. Their condition and availability directly affect product consistency and conformity, particularly in high-speed production environments. Effective mould management is therefore essential to sustaining throughput while maintaining quality standards. SILXMold addresses this requirement through comprehensive mould traceability. As one of six modules within the SIL system, it enables operators to monitor the full lifecycle of each mould, from initial commissioning through repair cycles and eventual replacement. This visibility supports both unit and series production, ensuring mould resources are deployed efficiently and cost-effectively.

REAL-TIME MOULD TRACEABILITY FOR SMARTER DECISION-MAKING

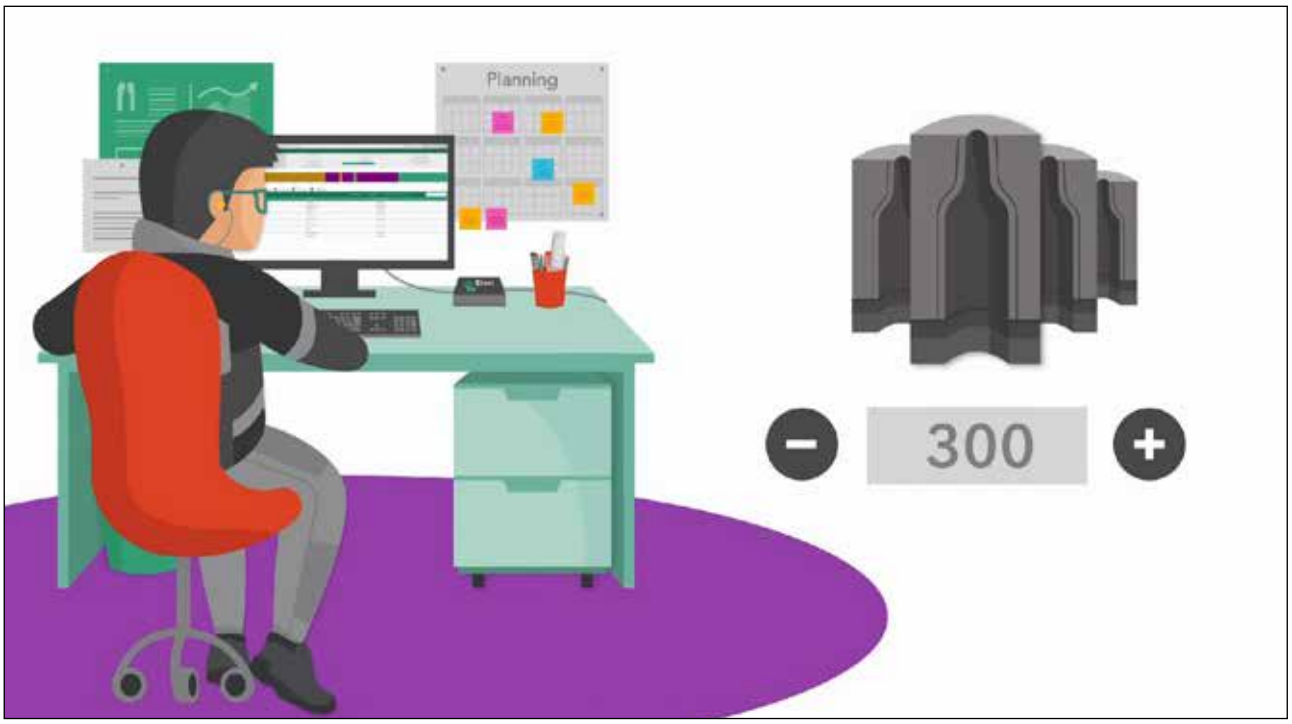
Real-time data access is central to SILXMold's value. Operators benefit from an intuitive dashboard featuring a colour-coded alarm system that clearly indicates mould status and maintenance priorities. Whether a mould is operational, requires servicing, or is unavailable, the system enables rapid, informed decision-making. Detailed mould histories, including repair records and dimensional inspections, are instantly accessible, accelerating diagnostics and reducing repair lead times. The software also tracks time spent on specific repair types, allowing workshops to refine workflows and minimise downtime. This level of traceability reduces the risk of mould shortages and supports consistent production performance

STREAMLINING OPERATIONS WITH DETAILED MOULD INSIGHTS

Beyond tracking, SILXMold provides in-depth performance analytics. The system records rotations, machine gobs, and remaining service potential for each mould, giving operators early warning when end-of-life thresholds are approaching. Planned replacements can therefore be scheduled in advance, avoiding unplanned production interruptions. The software also captures the reasons for mould disassembly, whether due to wear, damage, or process-related issues. This contextual information allows teams to prioritise corrective actions and return moulds to service as quickly as possible.

FINANCIAL AND OPERATIONAL BENEFITS: A WINNING INVESTMENT

From a financial perspective, SILXMold enables more accurate assessment of mould profitability. By comparing theoretical and actual machine cut counts, manufacturers gain insight into true mould performance and cost efficiency. This supports informed investment decisions regarding



refurbishment or replacement. Based on customer experience, Vertech' estimates that systematic mould rotation can extend mould set lifetime by approximately 15 percent. SILXMold further optimises mould stock management by reducing unnecessary purchases and limiting downtime. Real-time visibility of mould availability ensures production requirements are met without excess inventory. Vertech' reports that customers can achieve stock value savings of up to 10 percent through improved planning and utilisation.

ENHANCING COMMUNICATION ACROSS THE PRODUCTION LINE

Clear communication across production teams is another operational advantage. SILXMold includes an integrated messaging function that connects hot-end operators with the mould shop, reducing miscommunication and improving response times. With availability in 23 languages, the system is well suited to multinational manufacturing environments.

A SMART INVESTMENT FOR THE FUTURE

As competition intensifies within the glassmaking industry, the ability to increase efficiency while controlling costs has become critical. SILXMold delivers the tools required to manage mould assets strategically, reduce downtime, and improve decision-making. Through real-time traceability, advanced analytics, and enhanced collaboration, it represents a long-term investment in operational resilience. For manufacturers seeking to optimise existing mould inventories or streamline production workflows, SILXMold offers a practical, data-driven solution. By extending mould life and improving utilisation, it helps glassmakers achieve higher productivity and stronger returns in an industry where every minute counts.

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